OMMODORE **GUIDE TO** COMPUTER COMMUNICATIONS

 BOTHERSOME BASIC – BEGINNERS START HERE ● REBOUND – SUPERB CI6, PLUS/4 GAME ● ADVENTURE KIT-DIY ADVENTURIN



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Computer Communications

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Freeze - A Jolly Good Fellow?

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By Eric Doyle

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Contributions

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Your Commodore **Proudly Presents** 18 September 1987

Code Comfort

York Electronic Research is a small company specialising in kardware and software utilities which are worky of more attention. The lattest releases include a 6502 assembler and a 280 compiler for the C64.

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routine can also be maned. It's eatier to explain this by example.

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UTILITY REVIEW



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It's easy to complain bout advertisements. But which ones?

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Outshine Ordinary Joysticks













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The Personal Choice Collection

t trio of packages for the home or mubariness user which includes a nors processor, database and spreadshere program that can be used separately of integrated through common files. By Tow Hesbergarton

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PROGRAMMING





Pirates

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Adventure Kit

Want to write a gripping adventure? This series will provide a kit of machine code routines which will simplify the procedure and enable you to develop as individual style. We start off with the location/exit

As man of you knew, there

Location Exit models

born stored in a table frame Notice of Salation (Salation Salation Salation

folio to privide line finistions. This notice privide the case in any given location on the scores. The spekes of the command in: PSINTTYPELX, 2535 3866, LICHO, PSINTTYPELX, LICHO) is the location number, PSINTTYPE specifies the form of the loquin. Type D private the case across, the inverse using comman to separate these.

form outside for use in a w X is the horizontal position left sorrer of the output. It by type 0 output. Y type 0 output.

This checks whether an exit scale flow in on an ext. Josephin 900contain a zero. If the risk done one will remain 255. Be syntax in all remain 255. Be syntax in SYS 26667, LOCINO, DIESECTION LOCINO is an before DREICTION specifies the direct you want to more:

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18 BUN has been and select the SAVE option.

21 When procuped for the file name, break out of the object with ELP STOOY-RESTORE.

STOP/RESTORE.

3) Give the command:

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SYS 870 filenamu, 1,2,16884,3759
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The resulting code can be indenoted before the before the set.

filename, I, I

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The cheplay location option is the doctalization and wist emission for specified flocation. The set up quight allows you at uponify the eight in allows you at uponify the eight in

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100 THEN PHINT "YOU CAN'T GO
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That's all for now, next time I we ext at the company.

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Whitever side year fair, it such becomes appeared to deal of the mode of points a sharing one; it is more than the sides of the contractive of the con

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Making Music

The second installment of our music series continues coverage of the 64's sound chip, SID, and explains how to play lanes on your Commodure.

By Peter Gerrard

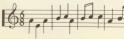
or will find in your Commode bl minned a list of high and law val Imparation for a rambler of not Deey're on gags 181, if you've is then! Here we are concerned so locations (Veldy and (Velly, which is contain the law and high order as

hopsexy respectively.

Say has hast to play the ente C-3. A place as the sable revision that the high value frequency in an 3, and the law value frequency in a 97. So, lineader to play that note the final line of our program become.

coald be you wanted. I stay to example moises or taxed or margal and ta pandating the services in the producing some hormon students in the modern in the case of the paste feet a public moces 17, 33, the ADSR not that much moce or to be ADSR.

me ADSK met that much more deficals to gradual state with mee. Has 1555, and so goes fireugh the effect in the it may be and to move take a look at assue sing ground ratios when operating with white region.



C84 PROGRAMMING

but steamsher that you eight very well wish your neighbours meanad? I and that I won copoutable for any untrouted in Busing in med the tech used her cland in particular that you have a NEXT loop as relationship between the Busin is but a single step to get from

FOR ... NEXT hosp are relationship between the three is it is to at a single step to ge from and cheech to proper tastes. The many mayor of evizating a tentor Commoders 64, and is the restallment set? It take a look at of the entert sembeds.

Playing Tunes

to far, there is really only one thin for the flat you need to know its orde to be able to play some times on you Commoditie 44 — the mean we'll going to play.

Later on we'll be using a modifie

Later on we'll be using a modified symbolism program to de all this for us, but for now ne'll took his near every insight brings that must people will either harmy before typing in or near the state of the state o

5 FOR 1-9 TO 24500 NEXT

10 V+54272 15 POKE V+24,15 20 POKE V+5,9 POK 21 POKE V+12,8 PO

NIXT 1 28 POKE V+LET/POK POKE V+16.0 POKE 27POKE V+16.0 POKE

So far so pool and so fa We won't yet carry on to three lines from the last is actually alwayd a chord, we

all.

A familiar enough tune cyclybody must be the those' on Close Enoughers of the Third when the allows and human firstablish some sort of communic

an Laconic Light Oxidinetis com. The fire of himportant notes are E. Circin non-nature of the control of the co

to true frequency values, or 1 number of cycles per accord for as particular rade. For the five resea our Cline: Encounten shous, 1 frequency salam are as fethere: 200 DATA 1284,1351, 1432, 536, 603

The -1 data element in line 100 w serve to still the proparations to vorere of data and are not going to playing any more natus. If we add a lattering lines to our main progra

20 BEAD F.IF F=3 THEN FOR 1=6 TO 24 POKE V=1,0 NEXT 1END 31 FH=HNTF/2800FL=F-FH*25 32 FOR 1=6 TO 2 31 POKE V=1*7/FLFOKE

50 POKE V117/FLPOKE V14794-ER 31 NEXT I 40 OOTO 25

control to introduce some ferm of too before going back to line 23 and V. Bring the real note, a line seemsthing 34 or line 35 would suffice for now:

35 FOR 1+0 TO 1000.5

A one second-de notas. But woulder were to let, the predelay for us, rather one second delay a just one way of doi meent S
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the pres us much more of the creek of th

through much orial and error, or stonering the programming use of things shappeder and latting the prince transfer the program do the job. If we had our original less 100 hash again which is: 100 DAVA 1204,0351 1432, 536, 803

we could insert jut another new fine 35 to read: 35 GET AREF AR < > " THEN

In which case no would mak for the person remeiting the pengram to possible space har before presenting on to play the next note. However, this is all axing after of the 64% merson republishes, and in order to make such today play the note in a different key.

31 FH-HNTIF-/250xFL=F-FH*256 32 FOR 1+0 TO 2 33 FORE V-1+7,FL:FOKE V-1-7-4-LFM 34 NEXT 1

H FOR 1-0 TO

if we FH*256 is the 32 REMark is now redorderst ing a 33 POKE V+1*3,FE-POKE loss's V+1*7+1,FH

34 NES

. HILLIAND POLICES

of the everything up.

There are many neit wenderful reason offices that substreet the substreet of the things that my become the things that my've hearst a fiar. Try aftering the

that we've learnt abniferring the vare in this, and ice, to see what the we start considerin

more advanced techniques axis to on the 64, such as Efects to our the 64, such as Efects will serie a substantial series and the start product more windown at the path to product by when it is not be sufficient to the substantial series, but sho be on the path to product by wheniter, involving the size

symbolist, irrelying the size of different resolution increases reach more besides. However, we can talk about a impercentation we need to be great deal more about here work, and in perticular how of

intraments produce the sound if they do.

Consequently, in the rest nection of the locking is none detail ADSR excelopes, and how changi them can produce a mile variety different and ownead sounds and he

combined with a selection of officers maneforms and one or two othe persenters, we can really start i realise the persential of the 64 and i SID chip.

Attack Decay Sentaka Reference

in order to minimize the quality of anominical performance that no englet softence by using the Commodute 64, as thereough, undervisateding of the exteriogs abupe of a voice, or the ADSR satting is consented. The simple definitions that we have already given for the phasma, Allands, Deery, Sonaises used. Belone will sell as what they may, but will not expalien encount-

50 V=542T2 20 POKE V+24,15

40 POKE V+5,029 50 POKE V+1,12: This produces a frequency relation

frequency playing using the waveform, and has Attack/Decay setting combined with a Season attack of use. The season nd 40 POKE V+5,33 POKE V+6,0
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10 V=54272 15 FOR 1=0 TO 24 FOKE V+LONEXT 1 30 FOKE V+24.15

25 A=0.D=1.S=1.R=0.W= 30 PRINT*[CLR]* 35 PRINT*[HOME]Arack Santain Belegase W/Form* 60*RIXTTAB::DRTAB(3)*/A* 45 PDKE 188.0

45 POKE 198.0 30 OUT ASSEAS-"THEENSO SUFAS-"A THENA-A+10FA-THENA-0 90FAS-"D THEND-D-11FD-THEND-B SUFAS-"S THENS-5+11FS-11

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N FOXE Y-12, A-15+ D-FOK
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V-4, W-16+1 FOKE V-2, m-1
V-5, m-1

A fairly straightforward probut it filoatoated point. After a up the varieble V the program displays the current entings of A Dreay. Souths and fletane or serves before making for the sepress a lay. Proving the 'A licerance the attack sering, I

Deep, Sonain and Belos action before making for t green a key. Proving the increases the attack sense deep setting, 5 the statutes R the release setting. Finally W changes the waveform, is choose to do so. Proposes, a requirade before these shell is at less placed by line 90. You might care to add to 10 program, so that different pad frequencies can be selected, different notes played. The changes a net too difficult, and more not to different notes played. The changes a net too difficult, and more not be precented or of harding our line proposes of harding our line proposes.

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By Mycroft Appleby

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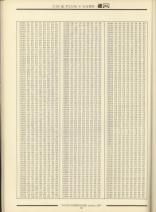






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